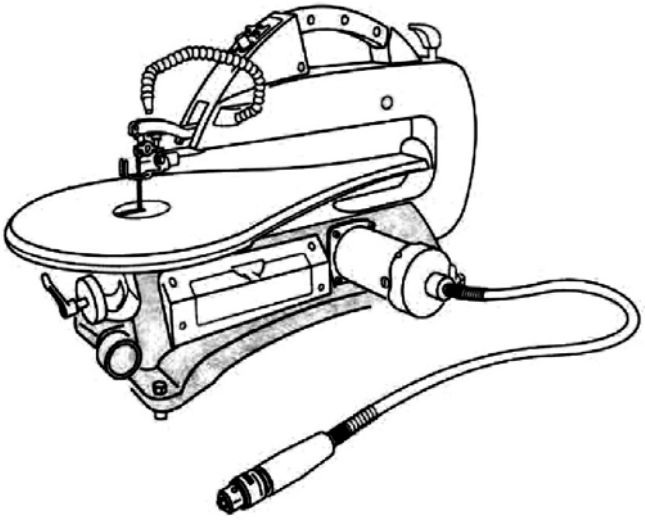
18" Scroll Saw
with Rotary Attachment



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SKU: 240-0041

Operation and Safety Instructions

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Technical data

18" Scroll Saw with Rotary Attachment **240-0041**

Motor:	120 V, 60 Hz, 2 A
Blade speed:	400-1,600 SPM
Rotary tool speed:	1,100-4,500 RPM
Maximum cutting capacity:	2” (5.1 cm) thick
Throat capacity:	18” (45.7 cm) long
Blade size:	5” (12.7 cm) pinned and pin-less
Blade stroke:	3/4” (19 mm)
Work table bevel:	45º left and right
Work table size:	24-5/8”x13” (62.5x33 cm)
Rotary table size:	5-3/8”x7-1/16” (13.6x18 cm)
Chuck size:	1/4” (6.35 mm)

General safety rules

Safety is a combination of common sense, staying alert, and knowing how your power tool works.
SAVE THESE SAFETY INSTRUCTIONS.

> ⚠ **WARNING:** To avoid mistakes that could cause serious injury, do not plug in the power tool until the following steps have been read and understood.

1. READ and become familiar with this entire instruction manual. LEARN the tool's applications, limitations, and possible hazards.
2. AVOID DANGEROUS CONDITIONS. Do not use power tools in wet or damp areas or expose them to rain. Keep work areas well-lit.
3. DO NOT use power tools in the presence of flammable liquids or gases.
4. ALWAYS keep your work area clean, uncluttered, and well-lit. DO NOT work on floor surfaces that are slippery.
5. KEEP BYSTANDERS AT A SAFE DISTANCE from the work area, especially when the tool is operating. NEVER allow children or pets near the tool.
6. DO NOT FORCE THE TOOL to do a job that it was not designed to do.
7. DRESS FOR SAFETY. Do not wear loose clothing, gloves, neckties, or jewelry (rings, watches, etc.) when operating the tool. Inappropriate clothing and items can get caught in moving parts and draw you in. ALWAYS wear non-slip footwear and tie back long hair.
8. WEAR A FACE MASK OR DUST MASK as the operation produces dust.

> ⚠ **WARNING:** Dust generated from certain materials can be hazardous to your health. Always operate this tool in a well-ventilated area and provide for proper dust removal. Use dust collection systems whenever possible.

9. ALWAYS remove the power cord plug from the electrical outlet when making adjustments, changing parts, cleaning, or working on the tool.
10. KEEP GUARDS IN PLACE AND IN WORKING ORDER.
11. AVOID ACCIDENTAL START-UPS. Make sure the power switch is in the OFF position before plugging in the power cord.
12. REMOVE ADJUSTMENT TOOLS. Always make sure all adjustment tools are removed from the power tool before turning it on.

General safety rules (continued)

13. NEVER LEAVE A RUNNING TOOL UNATTENDED. Turn the power switch to OFF. Do not leave the tool until it has come to a complete stop.

14. NEVER STAND ON A TOOL. Serious injury could result if the tool tips or is accidentally hit. DO NOT store anything above or near the tool.

15. DO NOT OVERREACH. Keep proper footing and balance at all times. Wear oil-resistant rubber-soled footwear. Keep the floor clear of oil, scrap, and other debris.

16. MAINTAIN TOOLS PROPERLY. ALWAYS keep tools clean and in good working order. Follow instructions for lubricating and changing accessories.

17. CHECK FOR DAMAGED PARTS. Check for alignment of moving parts, jamming, breakage, improper mounting, or any other conditions that may affect the tool's operation. Any part that is damaged should be properly repaired or replaced before use.

18. MAKE THE WORKSHOP CHILDPROOF. Use padlocks and master switches and ALWAYS remove starter keys.

19. DO NOT operate the tool if you are under the influence of drugs, alcohol, or medication that could affect your ability to use the tool properly.

20. USE SAFETY GOGGLES AT ALL TIMES—that comply with ANSI Z87.1. Normal safety glasses only have impact resistant lenses and are not designed for safety. Wear a face or dust mask when working in a dusty environment. Use ear protection, such as plugs or muffs, during extended periods of operation.

Specific safety rules for the scroll saw

WARNING: Do not operate the scroll saw until it is assembled, and you have read and understand the following instructions and the warning labels on the scroll saw.

Before operating

1. Check for proper assembly and proper alignment of moving parts.
2. Understand the function and proper use of the ON/OFF switch.
3. Know the condition of the scroll saw. If any part is missing, bent, or does not operate properly, replace the component before you use the scroll saw.
4. Determine the type of work you are going to be doing. Properly protect your body including your eyes, hands, face and ears.
5. To avoid injury caused by pieces thrown accessories designed for this saw. Following the instructions supplied with the accessory. The use of improper accessories may cause risk of injury.
6. To avoid contact with rotating equipment:
   - Do not position your fingers where they could contact the blade if the workpiece should unexpectedly shift or your hand should slip.
   - Do not cut a workpiece too small to be held safety.
   - Do not reach under the scroll saw table when the motor is running.
   - Do not wear loose clothing or jewelry. Roll long sleeves above the elbow. Tie back long hair.
7. To avoid injury from accidental starting of the scroll saw:
   - Make sure the switch is OFF and unplug the power cord from the electric outlet before changing the blade, performing maintenance or making adjustment.
   - Make sure the switch is OFF before plugging in the power cord to an electric outlet.
8. To avoid injury from a fire hazard, do not operate the scroll saw near flammable liquids, vapors or gases.
9. To avoid back injury:
   - Obtain help when it is necessary to raise the scroll saw more than 10 inches (25.4 cm). Bend your knees when lifting the scroll saw.
   - Carry the scroll saw by its base. Do not move the scroll saw by pulling on the power cord. Pulling on the power cord could cause damage to the insulation or the wire connections resulting in electric shock or fire.

Specific safety rules for the scroll saw (continued)

When operating the scroll saw

WARNING: Use the rotary tool for sanding and grinding applications only. This product is not recommended for drilling applications.

1. To avoid injury from unexpected scroll saw movement:
   - Use the scroll saw on a firm level surface with adequate space for handling and supporting the workpiece.
   - Be sure the scroll saw cannot move when operated. Secure the scroll saw to a workbench or table with wood screws or bolts with washers and nuts.
2. Before moving the scroll saw, unplug the power cord from the electric outlet.
3. To avoid injury from kickback:
   - Hold the workpiece firmly against the tabletop.
   - Do not feed the workpiece too fast while cutting. Only feed the workpiece at the rate the saw will cut.
   - Install the blade with the teeth pointing downward.
   - Do not start the saw with the workpiece pressing against the blade. Slowly feed the workpiece into the moving blade.
   - Use caution when cutting round or irregularly shaped work pieces. Round items will roll and irregularly shaped work pieces can pinch the blade.
4. T avoid injury when operating the scroll saw:
   - If you are not thoroughly familiar with the operation of scroll saws, obtain advice from a qualified person.
   - Before starting the saw, make sure the blade tension is correct. Recheck and adjust tension as need.
   - Make sure the table is locked into position before starting the saw.
   - Do not use dull or bent blades.
   - When cutting a large workpiece, make sure the material is supported at the table height.
   - Turn the saw OFF and unplug the power cord if the blade jams in the workpiece while being backed out. This condition is usually caused by sawdust clogging the line you are cutting. If this happens, turn OFF the scroll saw and unplug the power cord. Wedge open the workpiece and back out the blade.

Electrical information

Grounding instructions

IN THE EVENT OF A MALFUNCTION OR BREAKDOWN, grounding provides the path of least resistance for electric current and reduces the risk of electric shock. This tool is equipped with an electric cord that has an equipment grounding conductor and a grounding plug. The plug MUST be plugged into a matching outlet that is properly installed and grounded in accordance with ALL local codes and ordinances.

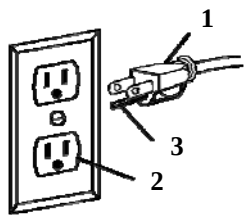
DO NOT MODIFY THE PLUG PROVIDED. If it will not fit the outlet, have the proper outlet installed by a licensed electrician.

IMPROPER CONNECTION of the equipment grounding conductor can result in electric shock. The conductor with the green insulation (with or without yellow stripes) is the equipment grounding conductor. If repair or replacement of the electric cord or plug is necessary, DO NOT connect the equipment grounding conductor to a live terminal.

CHECK with a licensed electrician or service personnel if you do not completely understand the grounding instructions, or if you are not sure if the tool is properly grounded.

USE ONLY THREE-WIRE EXTENSION CORDS that have 3-pronged plugs and outlets that accept the tool's plug as shown in Fig. A. Repair or replace a damaged or worn cord immediately.

Fig. A



1. 3-pronged plug
2. Properly grounded outlet
3. Grounding prong

CAUTION: In all cases, make certain the outlet in question is properly grounded. If you are not sure if it is, have a licensed electrician check the outlet.

Electrical information (continued)

WARNING: This power tool is for indoor use only. Do not expose to rain or use in damp locations.

Guidelines for using extension cords

Make sure your extension cord is in good condition. When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. The table below shows the correct size to be used according to cord length and nameplate ampere rating. If in doubt, use the next heavier gauge. The smaller the gauge number, the heavier the cord.

Minimum Gauge for Extension Cords (AWG)

(When using 120 V only)

Ampere rating		Total length of cord in feet (meters)			
More than	**Not more than**	**25 (7.6)**	**50 (15)**	**100 (30.4)**	**150 (45.7)**
0	6	18	16	16	14
6	10	18	16	14	12
10	12	16	16	14	12
12	16	14	12	Not recommended	

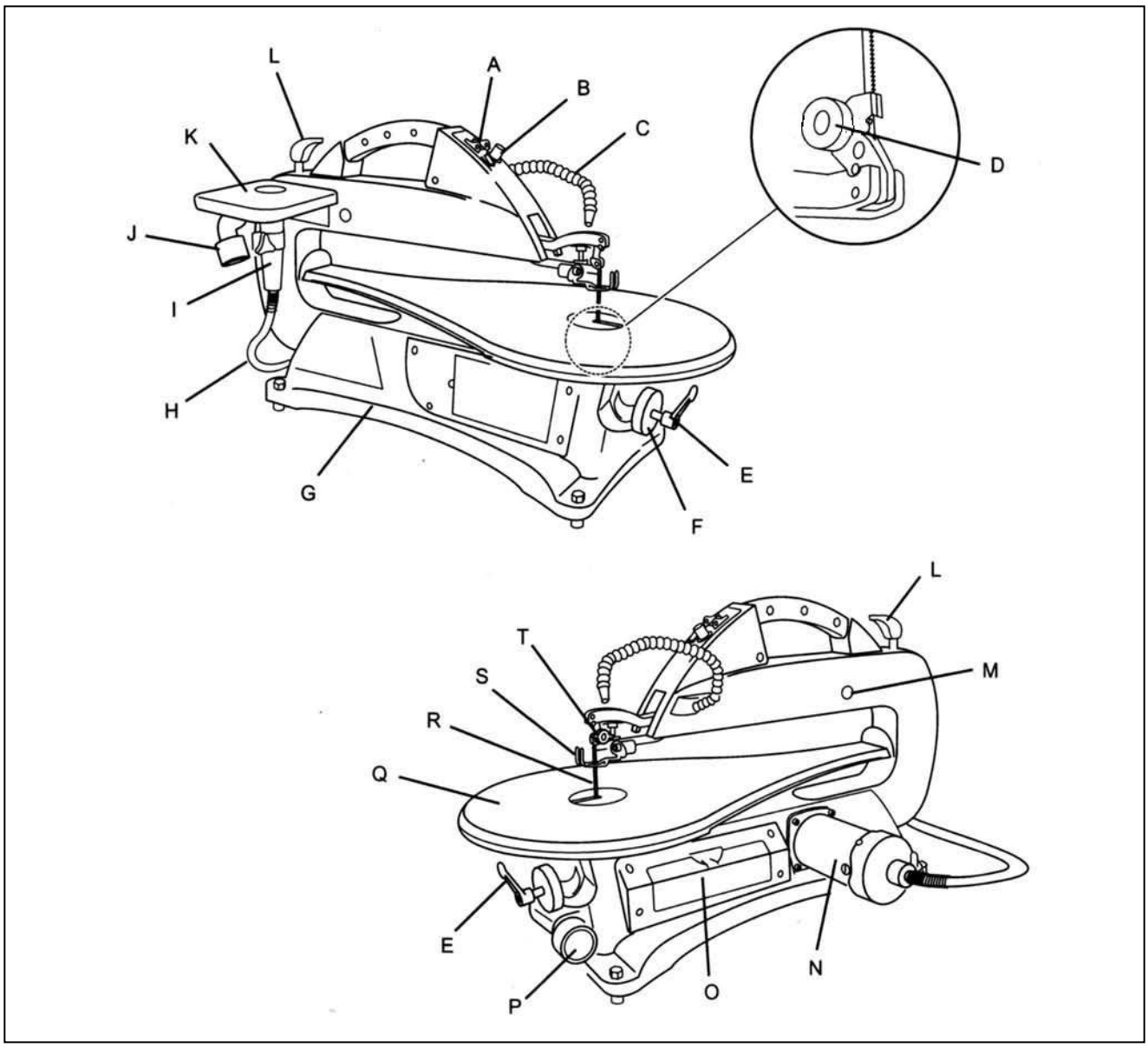
Make sure your extension cord is properly wired and in good condition. Always replace a damaged extension cord or have it repaired by a qualified person before using it.

Protect your extension cords from sharp objects, excessive heat and damp or wet areas.

Use a separate electrical circuit for your tools. This circuit must not be less than a #12 wire and should be protected with a 15 A time-delayed fuse. Before connecting the motor to the power line, make sure the switch is in the OFF position and the electric current is rated the same as the current stamped on the motor nameplate. Running at a lower voltage will damage the motor.

WARNING: This tool must be grounded while in use to protect the operator from electric shock.

Know your scroll saw



A	On/off and light switches	K	Rotary table
B	Speed control knob	L	Blade tension lock lever
C	Dust blower and light	M	Rubber bearing cover
D	Lower blade holder	N	Motor
E	Bevel lock handle	O	Storage compartment
F	Bevel adjustment knob	P	Sawdust port
G	Base	Q	Saw table
H	Rotary tool cable	R	Blade
I	Rotary tool in clamp	S	Blade guard foot
J	Rotary tool dust port	T	Upper blade holder and knob

Assembly and adjustments

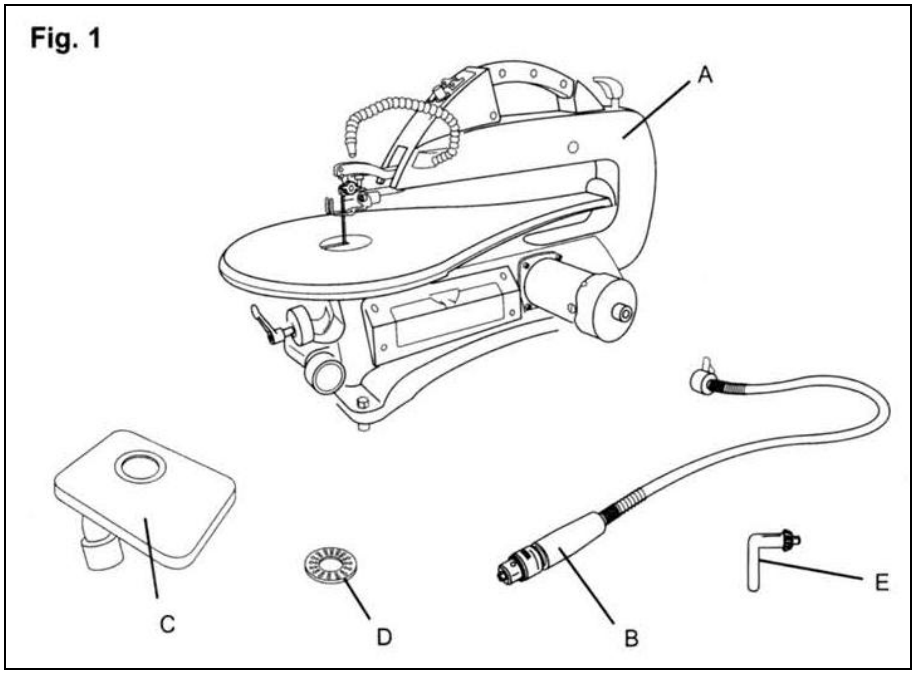
Unpacking (Fig. 1)

Unpack the scroll saw and all its parts, and compare against the list below. Do not discard the carton or any packaging until the scroll saw is completely assembled.

CAUTION: Do not lift the saw by the arm that holds the blade. The saw will be damaged.

WARNING: To avoid injury from accidental starting, turn switch OFF and remove plug from power source outlet before making any adjustments.

Fig. 1



A	Scroll saw
B	Rotary tool
C	Rotary table with dust port (Assembled on the scroll saw)
D	Rotary table insert
E	Chuck key

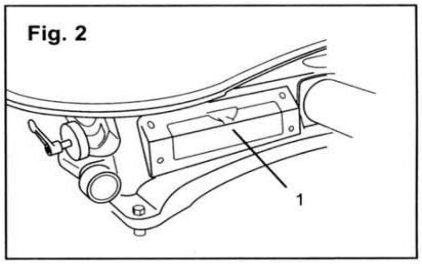
Not shown:

Pin-less blade (1)
Allen wrench (3mm, 4mm & 5mm)
Extra brush (1 set)

Storage compartment (Fig. 2)

A storage location (1) for small accessories

Fig. 2



Assembly and adjustments (continued)

Align the bevel indicator (Fig. 3-5)

The bevel indicator has been factory adjusted, it should be rechecked prior to use for best operation.

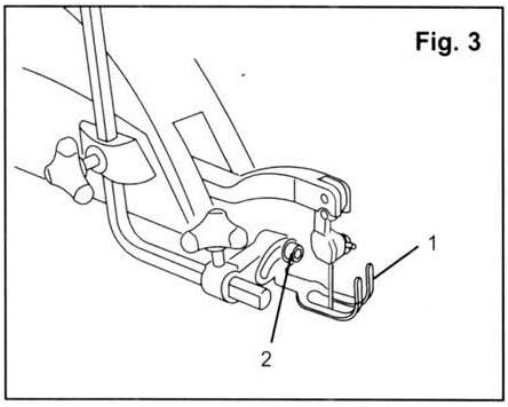


Fig. 3

1. Remove the blade guard foot (1) using a hex key to loosen the screw (2).
2. Loosen the table bevel lock handle (3) and turn the table adjustment knob (4) to move the table until it is approximately at a right angle to the blade.
3. Use a combination square (5) (not provided) to set the table exactly 90º to the blade (6). If there is space between the square and the blade adjust the table angle until the space is closed.
4. Tighten the table bevel lock handle (3) to prevent movement.
5. Loosen the screw (7) holding the bevel scale pointer and position pointer to 0º. Tighten the screw.
6. Attach the blade guard foot (1) and tighten the screw (2).

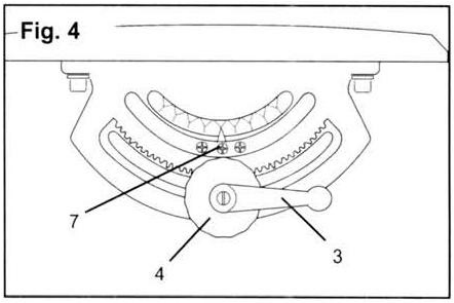


Fig. 4

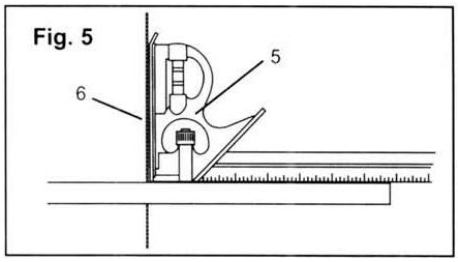


Fig. 5

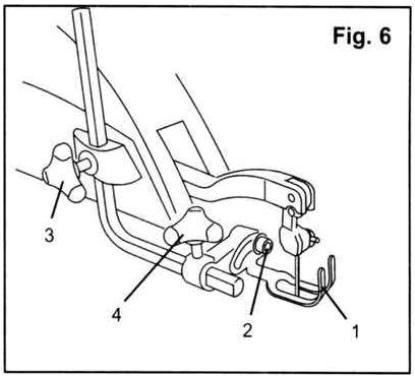
Assembly and adjustments (continued)

WARNING: to reduce the risk of injury:

- When carrying the saw, hold it close to your body to avoid injury to your back. Bend your knees when lifting the saw.
- Carry the saw by the base. Do not carry the saw by the power cord.
- Secure the saw in a position where people cannot stand, sit, or walk behind it. Debris thrown from the saw could injure people standing, sitting, or walking behind it.
- Secure the saw on a firm, level surface where the saw cannot rock and there is adequate room for handling and properly supporting the workpiece.

Blade guard foot adjustment (Fig. 6)

When cutting at angles, the blade guard foot should be adjusted so it is parallel to the table and rests flat above the workpiece.

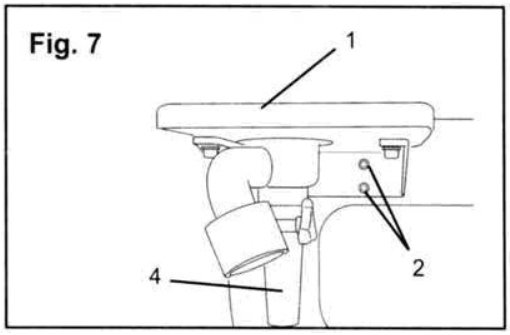


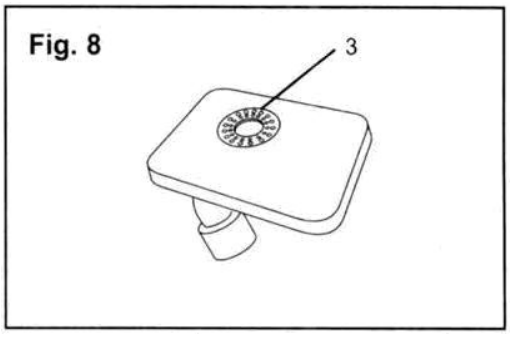
1. To adjust, loosen the screw (2), tilt the foot (1) so it is parallel to the table, and tighten the screw.
2. Loosen the height adjustment knob to raise or lower the foot until it just rests on top of the workpiece. Tighten the knob.
3. Loosen the horizontal adjustment knob (4) and move the foot forward or backward as needed.

Attach the rotary tool table (Fig. 7 and 8)

1. Secure the rotary tool table (1) to the side of the saw using the four hex screws (2) and washers provided with the table.
2. Place the rotary table insert (3) in the opening on the rotary table.

Note: The rotary tool (4) attaches to the clamp located below the rotary tool table.





Assembly and adjustments (continued)

Sawdust collection port (Fig. 9 and 10)

This scroll saw allows a hose or vacuum accessory (not provided) to be connected to the dust chute (1) at the front of the saw and to the dust chute (2) under the rotary tool table (30, if installed.

If excessive sawdust buildup occurs inside the base, use a wet/dry vacuum cleaner or manually remove sawdust. This will keep your saw cutting efficiently.

Fig. 9

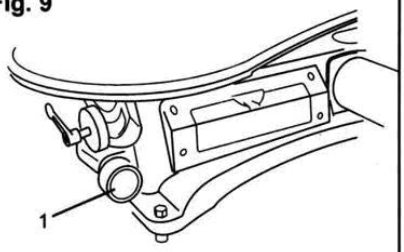
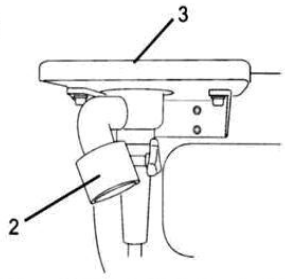


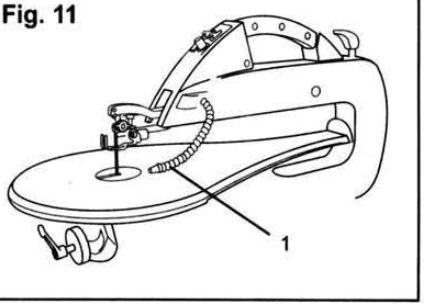
Fig. 10



Adjusting the dust blower/light (Fig. 11)

For best results, the dust blower tube (1) should be adjusted to direct air and light at the blade and workpiece.

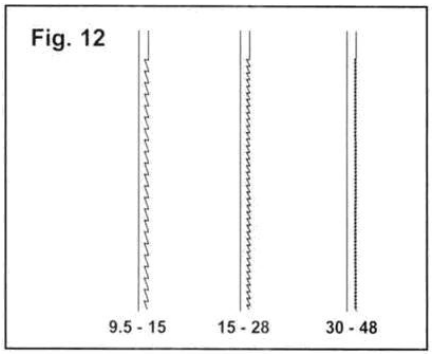
Fig. 11



Assembly and adjustments (continued)

Blade selection (Fig. 12)

This scroll saw accepts 5" length pin-end and pinless blades, with a wide variety of blade thicknesses and widths. The type of material and intricacies of cutting operations will determine the number of teeth per inch. Always select the narrowest blades for intricate (tight radius and curves) curve cutting and the widest blades for straight and large curve cutting operations. The following table represents suggestions for various materials. When purchasing blades, refer to the back of the package for best use of blades on various materials. Use this table as an example, but practice and your own personal preference will be the best selection method.



When choosing a blade, use very fine, narrow blades to scroll cut in thin wood 1/4" thick or less. Use wider blades for thicker materials but this will reduce the ability to cut tight curves.
Note: Thinner blades will have more possibilities for blade deflection when cutting angles are not perpendicular to the table.

Teeth /inch TPI	**Blade width Inch**	Blade thickness Inch	Blade/SPM	Material cut
10-15	0.110	0.018	500-1200	Medium turns on ¼” to 1-3/4” wood, soft metal, hardwood
15-28	0.055-0.110	0.010-0.018	800-1700	Small turns on 1/8” to 1-1/2” wood, soft metal, hardwood
30-48	0.024-0.041	0.012-0.019	Varies	Non-ferrous metal/hardwoods using very slow speeds

Blade Care

To maximize the life of your scroll saw blades:

1. Do not bend blades when installing.
2. Always set proper blade tension.
3. Use the right blade (see instructions on replacement blade packaging for proper use.)
4. Feed the workpiece correctly into the blade.
5. Use thin blades for intricate cutting.

CAUTION: Any and all servicing should be performed by a qualified service center.

Assembly and adjustments (continued)

Blade removal and installation (Fig. 13-15)

WARNING: To prevent personal injury, always turn saw OFF and disconnect the plug from the power source before changing blades or making adjustments.

This saw uses pin-end and pin-less blades. Pin-end blades are thicker for stability and for faster assembly. They provide faster cutting on a variety of materials.

Note: When installing pin-end blades, the slot on the blade holder must be slightly wider than the thickness of the blade. After the blade is installed, the blade tension mechanism will keep it in place.

1. Loosen the blade tension by raising the blade tension lock lever (1).
2. To remove a blade:
   Pinned: Lift the blade (2) out and away from the upper and lower blade holders (3).
   Pin-less: Loosen the upper and lower blade holders (3), and lift the blade out and away from the blade holders.
   CAUTION: Install the blade with the teeth pointed downward.
3. Install a pinned blade:
   a. Hook a blade (2) in the recess of the lower blade holder.
   b. Press down on the upper blade holder and insert the blade into the slot on the upper holder.
   c. Lower the blade tension lock lever (1). Make sure the blade is properly located in the blade holders.
4. Install a pinless blade:
   a. Place a blade (2) in the upper and lower blade holders (3).
   b. Tighten the lower and upper blade knobs (4) by hand or provided allen wrench.
   c. Lower the blade tension lock lever (1). Make sure the blade is properly located in the blade holders.

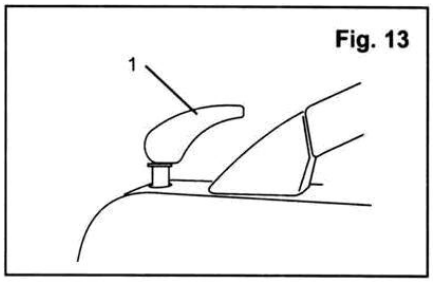


Fig. 13

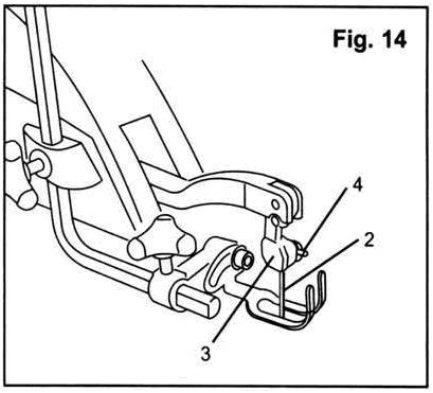


Fig. 14

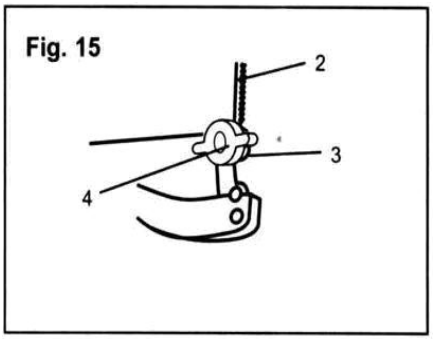


Fig. 15

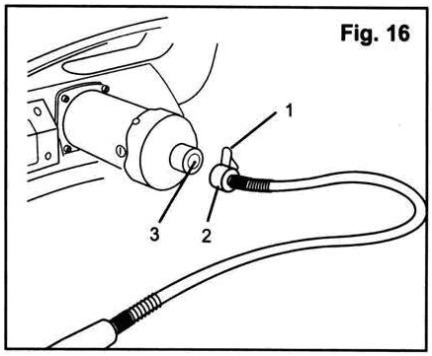
Assembly and adjustments (continued)

WARNING: Remove the saw blade before installing and/or using the rotary tool.

Connect the rotary tool to the saw (Fig. 16)

The rotary tool can be used as a handheld or stationary device. The rotary tool connects to the motor and is operated using the ON/OFF switch and variable speed dial on the saw.

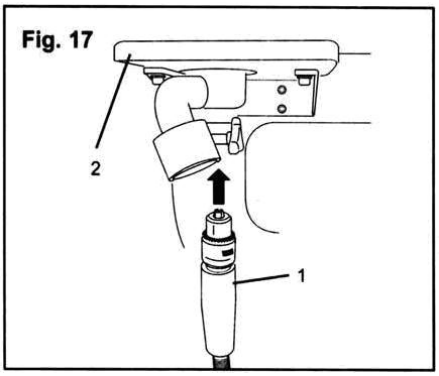
1. Open the latch (1) on the rotary tool coupler (2).
2. Insert the inner cable into the opening (3) at the end of the motor fitting.
3. Place the coupler (2) over the motor fitting. Turn the coupler to ensure a good fit, and close the latch (1).



Attach the tool to the support bracket (Fig. 17)

Use this procedure to use the rotary tool as a stationary device.

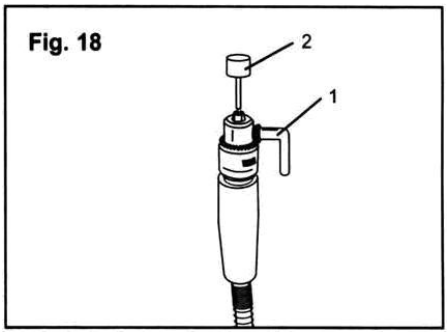
1. Loosen the knob on the rotary clamp.
2. Insert the rotary tool (1) through the clamp and the opening in the rotary table (2).
3. Tighten the knob to secure the rotary tool in the clamp.



Install rotary tools (Fig. 18)

WARNING: Use the rotary tool for sanding and grinding applications only. This product is not recommended for drilling applications.

1. Place the chuck key (1) into the side keyhole of the chuck, meshing the key with the gear teeth.
2. Turn the chuck key counterclockwise to open the chuck jaws.
3. Insert a rotary tool (2) (not provided) into the chuck far enough to obtain maximum gripping of the chuck jaws.
4. Center the rotary tool in the chuck jaws.
5. Tighten the chuck jaws using the chuck key to ensure that the tool will not slip while drilling.
6. Remove the chuck key (1).



Operation

Recommendations for cutting

A scroll saw is basically a curve-cutting machine. It can also be used for straight cutting and beveling or angle cutting operations. Please read and understand the following items before attempting to use the saw.

1. When feeding the workpiece into the blade do not force it against the blade. This could cause blade deflection. Allow the saw to cut the material by guiding the workpiece into the blade as it cuts.

2. The blade teeth cut material ONLY on the down stroke.

3. Guide the wood into the blade slowly because the teeth of the blade are very small and remove wood only on the down stroke.

4. There is a learning curve for each person using this saw. During that period of time it is expected that some blades will break until you learn how to use the saw.

5. Best results are achieved when cutting wood one inch thick or less.

6. When cutting wood thicker than one inch, guide the wood very, very slowly into the blade and take extra care not to bend or twist the blade while cutting in order to maximize blade life.

7. Teeth on scroll saw blades wear out and the blades must be replaced frequently for best cutting results. Scroll saw blades generally stay sharp for 1/2 hour to 2 hours of cutting.

8. To get accurate cuts, be prepared to compensate for the blade's tendency to follow the wood grain as you are cutting.

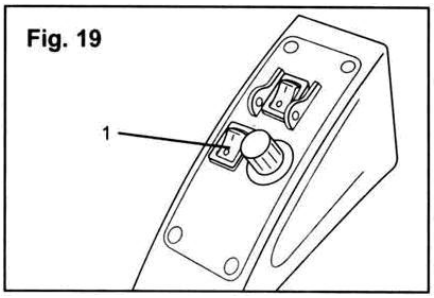
9. This scroll saw is primarily designed to cut wood or wood products. For cutting precious and non-ferrous metals, the variable control switch must be set at very slow speeds.

10. When choosing a blade, use very fine, narrow blades to scroll cut in thin wood 1/4" thick or less. Use wider blades for thicker materials but this will reduce the ability to cut tight curves.

11. Blades wear faster when cutting plywood or very abrasive particle board. Angle cutting in hardwoods wears blades down faster.

LED Light switch (Fig. 19)

1. To turn on the light, press the light switch (1) to the ON (I) position.
2. To turn OFF the light, press the light switch (1) to the OFF (O) position.

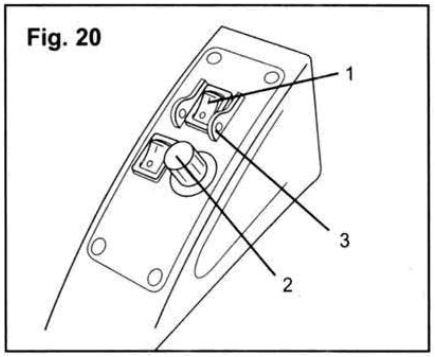


Operation (continued)

ON/OFF switch and speed control knob (Fig. 20)

Always wait for the saw or rotary to come to a complete stop before restarting.

1. To turn the saw or rotary on, press the switch (1) to the ON (I) position.
2. Turn the variable speed knob (2) to adjust the blade speed or rotary speed to the desired setting. Turning the control knob clockwise increases speed; turning it counterclockwise reduces speed.
3. To turn the saw off, press the switch (1) to the OFF (O) position.

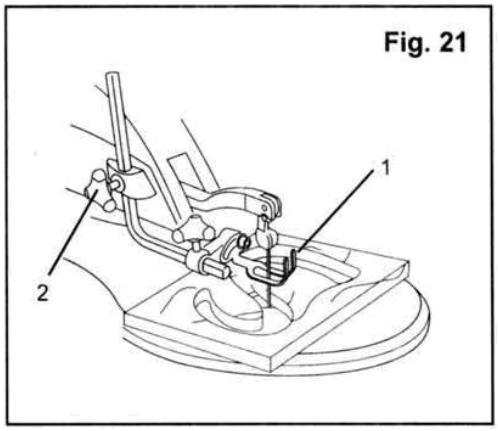


Note: A small lock may be placed between the power switch and the plastic switch guard (3) to prevent accidental operation. It is recommended to lock the saw when not in use.

WARNING: To avoid injury from accidental start-ups, always turn the switch OFF and unplug the scroll saw before moving the tool, replacing the blade, or making adjustments.

Freehand cutting (Fig. 21)

1. Lay out desired design, or secure design to the workpiece.
2. Raise the blade guard foot (1) by loosening the height adjustment knob (2).
3. Position the workpiece against the blade and place the blade guard foot against the top surface of the workpiece.
4. Secure the blade guard foot (1) by tightening the height adjustment knob (2).
5. Remove the workpiece from the blade prior to turning the scroll saw ON.



CAUTION: In order to avoid uncontrollable lifting of the workpiece and to reduce blade breakage, do not turn the switch on while the workpiece is against the blade.

6. Slowly feed the workpiece into the blade by guiding and pressing the workpiece down against the table.

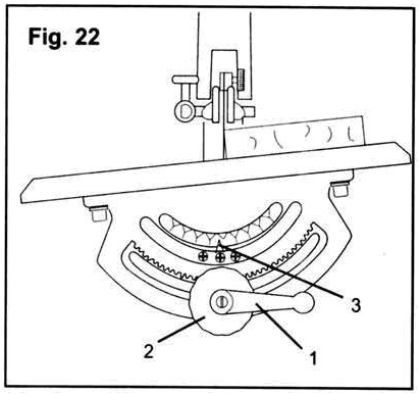
CAUTION: Do not force the leading edge of the workpiece into the blade. The blade will deflect, reducing accuracy of cut, and may break.

7. When the cut is complete, move the trailing edge of the workpiece beyond the blade guard foot. Turn the switch OFF.

Operation (continued)

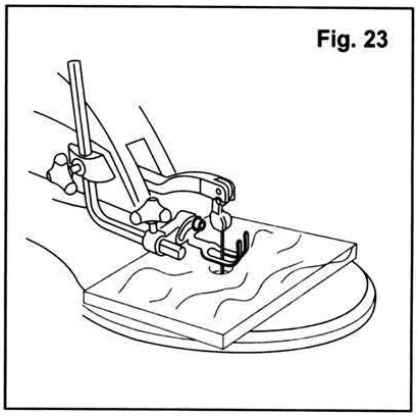
Angle cutting (bevel cutting) (Fig. 22)

1. Layout or secure design to workpiece.
2. Move the blade guard foot to the highest position by loosening the height adjustment knob (1). Retighten.
3. Tilt the table to the desired angle by loosening the table bevel lock handle (2) and moving the table to the proper angle using the degree scale and the pointer (3).
4. Tighten the table bevel lock handle (2).
5. Loosen the blade guard screw, and tilt the blade guard to the same angle as the table. Retighten the blade guard screw. See Hold down clamp adjustment'.
6. Position the workpiece on the right side of the blade. Lower the blade guard foot against the surface by loosening the height adjustment knob. Retighten.
7. Follow steps 5-7 under Freehand cutting.



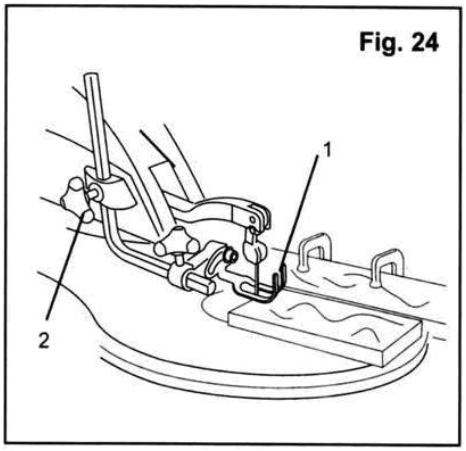
Interior cutting (Fig. 23)

1. Lay out the design on the workpiece. Drill a 1/4" hole in the workpiece.
2. Remove the blade. See Blade removal and installation.
3. Place the workpiece on the saw table with the hole in the workpiece over the access hole in the table.
4. Install a blade through the hole in the workpiece.
5. Follow steps 3-7, under Freehand cutting.
6. When finished making the interior scroll cuts simply turn the scroll saw OFF. Unplug the saw before removing the blade from the blade holder. Remove the workpiece from the table.



Operation (continued)

Rip or straight line cutting (Fig. 24)



1. Raise the blade guard foot (1) by loosening the height adjustment knob (2).
2. Measure from the tip of the blade to the desired distance. Position the straight edge parallel to the blade at that distance.
3. Clamp the straight edge to the table.
4. Recheck your measurements using the workpiece to be cut and make sure the straight edge is secure.
5. Position the workpiece against the blade and place the blade guard foot against the top surface of the workpiece.
6. Secure the blade guard foot in place by tightening the height adjustment knob.
7. Remove the workpiece from the blade prior to turning the scroll saw ON.

CAUTION: In order to avoid uncontrollable lifting of the workpiece and reduce blade breakage, do not turn the switch on while the workpiece is against the blade.

8. Position the workpiece against the straight edge prior to touching the leading edge of the workpiece against the blade.
9. Slowly feed the workpiece into the blade, guiding the workpiece against the straight edge and pressing the workpiece down against the table.

CAUTION: Do not force the leading edge of the workpiece into the blade. The blade will deflect; reducing accuracy of cut, and may break.

10. When the cut is complete, move the trailing edge of the workpiece beyond the blade guard foot. Turn the switch OFF.

Tool needed

Quantity	Description
2	Small C-clamp
1	Ruler or measuring tape
1	12” straight scrap of wood (thickness to match workpiece)

Maintenance

WARNING: Always turn the switch OFF and unplug the power cord from the outlet before maintaining or lubricating the scroll saw.

To ensure that the wood glides smoothly across the work surface, periodically apply a coat of paste wax to the surface of the worktable. If the power cord is worn out or damaged in any way, replace it immediately. Do not attempt to oil the motor bearings or service the motor's internal parts.

Lubrication

Lubricate the arm bearings after every 50 hours of use.

1. Turn the saw on its side and remove the cover.
2. Squirt a generous amount of SAE 20 oil (lightweight motor oil) around the shaft and bearing.
3. Let the oil soak in overnight.
4. Repeat the above procedure for the opposite side of the saw.

Brushes (Fig. 25)

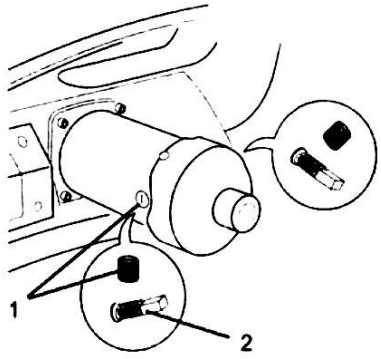
Check the condition of the carbon brushes after 50 hours of use. If the brushes are worn to 1/16" (2mm) in length, replace them.

1. Loosen and remove the two brush caps (1) using a flat-blade screwdriver.
2. Pull out each brush (2), inspect the brush and replace if necessary. Replace both brushes even if only one is damaged.

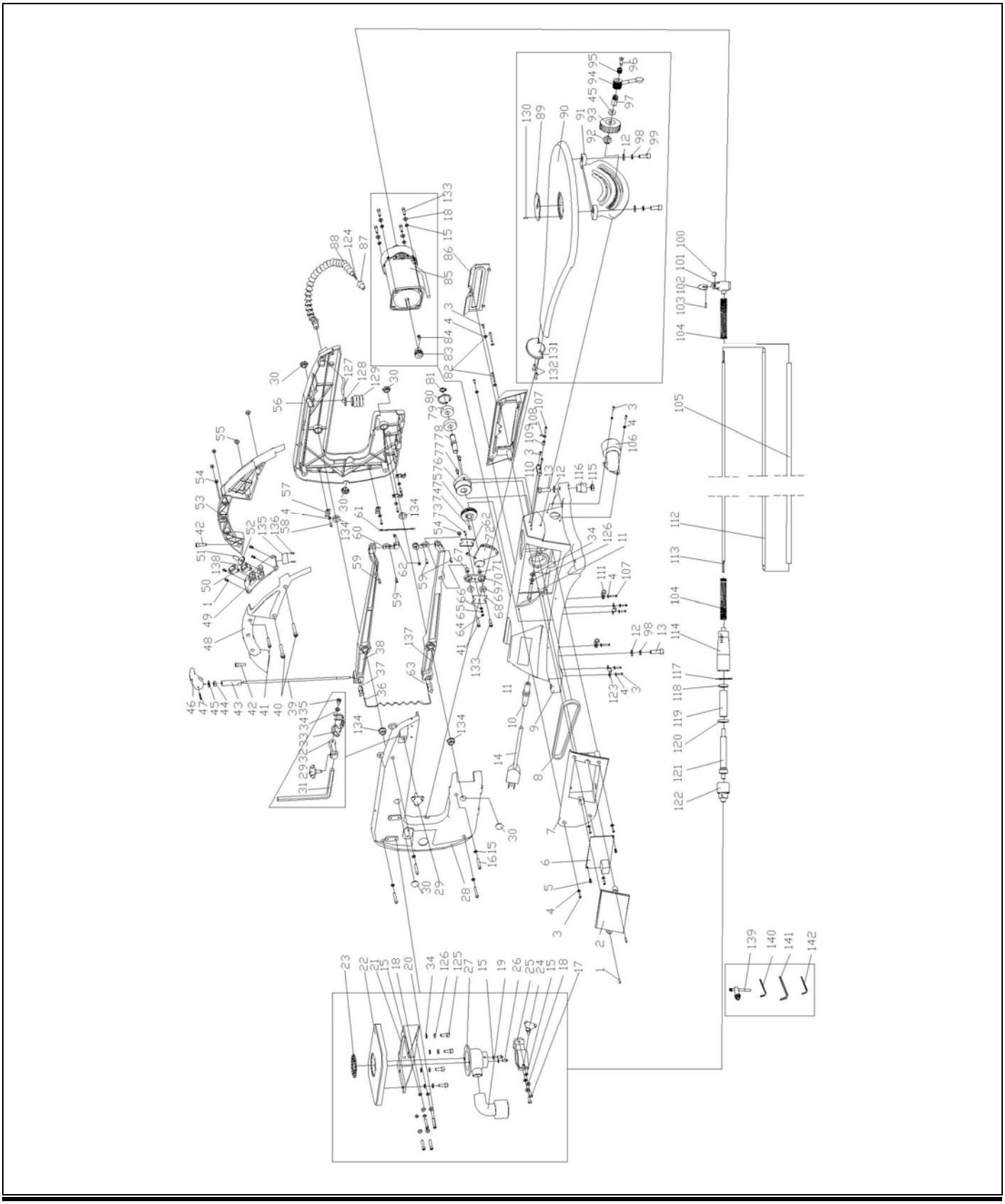
Note: After inspecting the brushes, be sure to install the brushes into the same position that they were removed from if you are not installing new ones.

3. Position the brushes into the motor. Tighten the brush caps (1) snugly. Do not over tighten.
4. Run the saw for approximately 5 to 10 minutes to allow the brushes to "seat" themselves. If the brushes are not seated correctly, the electric brake may not function correctly and could damage the motor. While the brushes are seating, some sparking may be noticed in the motor. This is normal for new brushes.

Fig. 25



Exploded view and parts list



Exploded view and parts list (continued)

Part#	Order #	Description	Qty
1	240-0041-001	Screw ST4.2×12	6
2	240-0041-002	Cover	1
3	240-0041-003	Screw M4x12	8
4	240-0041-004	Washer 4	16
5	240-0041-005	Screw ST2.9×8	2
6	240-0041-006	Circuit Board	1
7	240-0041-007	Left Side Cover	1
8	240-0041-008	Belt	1
9	240-0041-009	Base	1
10	240-0041-010	Power Cord Sleeve	1
11	240-0041-011	Bolt M6x70	1
12	240-0041-012	Washer 8	10
13	240-0041-013	Bolt M8 x 25	4
14	240-0041-014	Power Cord	1
15	240-0041-015	Washer 5	12
16	240-0041-016	Screw M5x25	4
17	240-0041-017	Bolt M5x16	2
18	240-0041-018	Spring Washer 5	6
19	240-0041-019	Rotary Tool Dust Port	1
20	240-0041-020	Screw M5x25	4
21	240-0041-021	Rotary Table Support	1
22	240-0041-022	Rotary Table	1
23	240-0041-023	Rotary Table insert	1
24	240-0041-024	Clamp Knob	1
25	240-0041-025	Clamp	1
26	240-0041-026	Screw M5x10	2
27	240-0041-027	Dust Port	1
28	240-0041-028	Left Housing	1
29	240-0041-029	Knob	2
30	240-0041-030	Plastic Cap	6
31	240-0041-031	Hold Down Rod	1
32	240-0041-032	Hold Down Bracket	1
33	240-0041-033	Blade Guard Foot	1
34	240-0041-034	Washer 6	6
35	240-0041-035	Screw M6x10	1
36	240-0041-036	Spring	1
37	240-0041-037	Upper Retainer	1
38	240-0041-038	Upper Rocker Arm	1
39	240-0041-039	Tension Bolt	1
40	240-0041-040	Screw M6x30	2

Part#	Order #	Description	Qty
41	240-0041-041	Screw M5x25	4
42	240-0041-042	Screw M6x20	2
43	240-0041-043	Sleeve	1
44	240-0041-044	Washer	1
45	240-0041-045	Flat Washer 6	2
46	240-0041-046	Blade Tension Lock Lever	1
47	240-0041-047	Spring Pin M3x20	1
48	240-0041-048	Left Carrying Handle	1
49	240-0041-049	Switch Cover	1
50	240-0041-050	ON/OFF Switch	1
51	240-0041-051	Speed Control Knob	1
52	240-0041-052	Speed Control Label	1
53	240-0041-053	Right Carrying Handle	1
54	240-0041-054	Nut M5	4
55	240-0041-055	Nut M6	2
56	240-0041-056	Right Housing	1
57	240-0041-057	Cord Clamp	4
58	240-0041-058	Screw M4x8	4
59	240-0041-059	Spring Pin M5x12	4
60	240-0041-060	Blade Holder	2
61	240-0041-061	Blade	1
62	240-0041-062	Screw M6x5	3
63	240-0041-063	Lower Retainer	1
64	240-0041-064	Nut M3	1
65	240-0041-065	Spring Washer 3	1
66	240-0041-066	Flat Washer 3	1
67	240-0041-067	Bearing Washer (A)	1
68	240-0041-068	Clamp Plate	2
69	240-0041-069	Bearing 625-2Z	2
70	240-0041-070	Connecting Link	1
71	240-0041-071	Bearing Washer (B)	1
72	240-0041-072	Cam	1
73	240-0041-073	Screw M3x12	1
74	240-0041-074	Flat Washer	1
75	240-0041-075	Wheel	1
76	240-0041-076	Retainer Sleeve	1
77	240-0041-077	Screw M5x16	2
78	240-0041-078	Wheel Shaft	1
79	240-0041-079	Bearing	2
80	240-0041-080	Snap Ring 32	1

Exploded view and parts list (continued)

Part #	Order #	Description	Qty
81	240-0041-081	Snap Ring 12	1
82	240-0041-082	Screw M4x30	2
83	240-0041-083	Wheel	1
84	240-0041-084	Screw M5x8	1
85	240-0041-085	Motor	1
86	240-0041-086	Tool Box Cover	1
87	240-0041-087	Dust Blower	1
88	240-0041-088	Air Nozzle	1
89	240-0041-089	Table Insert	1
90	240-0041-090	Saw Table	1
91	240-0041-091	Bevel Scale	1
92	240-0041-092	Gear	1
93	240-0041-093	Bevel Adjustment Knob	1
94	240-0041-094	Table Bevel Lock Handle	1
95	240-0041-095	Spring	1
96	240-0041-096	Bolt	1
97	240-0041-097	Bolt	1
98	240-0041-098	Spring Washer 8	6
99	240-0041-099	Screw M8x20	2
100	240-0041-100	Lock Bolt	1
101	240-0041-101	Rotary Connect	1
102	240-0041-102	Locking Knob	1
103	240-0041-103	Roll Pin	1
104	240-0041-104	Spring	2
105	240-0041-105	Shaft	1
106	240-0041-106	Sawdust Port	1
107	240-0041-107	Screw M4x16	2
108	240-0041-108	Pointer	1
109	240-0041-109	Pointer Holder	1
110	240-0041-110	bracket	1
111	240-0041-111	Cord Clamp	1
112	240-0041-112	Spring Tube	1
113	240-0041-113	Flex Shaft	1
114	240-0041-114	Rotary Tool	1
115	240-0041-115	Nut M8	4
116	240-0041-116	Rubber Foot	4
117	240-0041-117	Washer 15	1
118	240-0041-118	Bearing	1
119	240-0041-119	Sleeve	1
120	240-0041-120	Bearing	1

Part #	Order #	Description	Qty
121	240-0041-121	Rotary Shaft	1
122	240-0041-122	Chuck	1
123	240-0041-123	Clamp Clip	1
124	240-0041-124	LED Light	1
125	240-0041-125	Screw M6x16	4
126	240-0041-126	Spring Washer 6	5
127	240-0041-127	Air Hose	1
128	240-0041-128	Pressure Plate	1
129	240-0041-129	Air Bag	1
130	240-0041-130	Spring Pin M4x8	1
131	240-0041-131	Table Rock	1
132	240-0041-132	Screw M5x16	2
133	240-0041-133	Screw M5x16	5
134	240-0041-134	Copper Sleeve	4
135	240-0041-135	LED Circuit Board	1
136	240-0041-136	Screw ST2.9x6	2
137	240-0041-137	Lower Rocker Arm	1
138	240-0041-138	Light Switch	1
139	240-0041-139	Chuck Key	1
140	240-0041-140	Wrench 4	1
141	240-0041-141	Wrench 5	1
142	240-0041-142	Wrench 3	1

Warranty

MASTERFORCE™ SCROLL SAW WARRANTY

3-MONTH MONEY BACK GUARANTEE:
This MASTERFORCE™ brand power tool carries our 3-Month Money Back Guarantee. If you are not completely satisfied with your MASTERFORCE™ brand power tool for any reason within three (3) months from the date of purchase, return the tool with your original receipt to any MENARDS® retail store, and we will provide you a refund – no questions asked.

3-YEAR LIMITED WARRANTY:
This MASTERFORCE™ brand power tool carries our famous No Hassle 3-Year Limited Warranty to the original purchaser. If the tool fails within three (3) years from the date of purchase, simply bring this tool and its sale receipt back to your nearest MENARDS® retail store for a free equivalent replacement within those three years. Notwithstanding the foregoing, this limited warranty does not cover any damage that has resulted from abuse or misuse of the Merchandise. This warranty: (1) excludes expendable parts including but not limited to blades, belts, bits, light bulbs, and/or batteries; (2) shall be void if this tool is used for commercial and/or rental purposes; and (3) does not cover any losses, injuries to persons/property or costs. This warranty does give you specific legal rights and you may have other rights, which vary from state to state. Be careful, tools are dangerous if improperly used or maintained. Seller's employees are not qualified to advise you on the use of this Merchandise. Any oral representation(s) made will not be binding on seller or its employees. The rights under this limited warranty are to the original purchaser of the Merchandise and may not be transferred to any subsequent owner. This limited warranty is in lieu of all warranties, expressed or implied including warranties or merchantability and fitness for a particular purpose. Seller shall not be liable for any special, incidental, or consequential damages. The sole exclusive remedy against the seller will be for the replacement of any defects as provided herein, as long as the seller is willing or able to replace this product or is willing to refund the purchase price as provided above. For insurance purposes, seller is not allowed to demonstrate any of these power tools for you.

For questions / comments, technical assistance or repair parts –
Please Call Toll Free at: 1-888-315-3080 (M-F 8am – 5pm) CST

SAVE YOUR RECEIPTS. THIS WARRANTY IS VOID WITHOUT THEM.

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